

Notice of Allowability

Application No.

10/656,264

Examiner

Tung S. Lau

Applicant(s)

TSUCHIYA ET AL.

Art Unit

2863

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 06/28/2005.
2. ☒ The allowed claim(s) is/are 1-8.
3. ☒ The drawings filed on 02 February 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/28/2005 has been entered.

Prior art cited

2. Arthur et al. (U.S. Patent Application Publication 2002/0100601) discloses a wire protection grommet is constructed for installation in a wire pull opening in the cell of a cellular raceway. The grommet is sized for insertion through the wire pull opening and defines central passages extending through the opening. The central passage has a radius used portion defining a wire pull strain relief to prevent wires that pass through the grommet from being bent beyond a predetermined bend radius. The grommet is constructed to locking engage into the wire pull opening so that it is not displaced during use. The distal end of the grommet may be weighted so that the grommet correctly orients itself in the opening during installation. The grommet may also include a wire storage section around which excess wiring can be wrapped. Hooks may be provided for retaining the excess wire on the wire storage section. The grommet may

include an opening or slot which extends to the central passage and which is sized to permit wires to be slid into the passage. The grommet may be configured for installation in a variety of opening sizes and shapes and at the transitions between various components of the raceway system, such as between the raceway cell and an activation box or between the raceway cell and a feeder duct.

Allowable Subject Matter

3. Claims 1-8 are allowed.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance:

Independent claims 1, 5, 6 and 7 contain allowable subject matter. None of the prior art of record shows or fairly suggests the claimed invention.

Regarding claim 1:

The primary reason for the allowance of claim 1 is the inclusion of the method steps of predicting a displacement range of a wire harness including computing two predictive routes which satisfy the values of the length of the basic route, the fixing positions, the fixing directions and the minimum bending radius, and the two predictive routes being respectively closest to the fixing points. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claims 2, 3 and 4 are allowed due to their dependency on claim 1.

Regarding claim 5:

The primary reason for the allowance of claim 5 is the inclusion of a predicting a displacement range of pre-designed basic route of wire hardness including fixing positions, the fixing directions and the minimum bending radius. the displacement range computing unit that computes two predictive routes which satisfy the values of the length of the basic route. the fixing positions. the fixing directions and the minimum bending radius, and the two predictive routes being respectively closest to the fixing points. the displacement range. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Regarding claim 6:

The primary reason for the allowance of claim 6 is the inclusion of a predicting program for executing a method of predicting a displacement range of wire harness including computing two predictive routes which satisfy the values of the length of the basic route. the fixing positions. the fixing directions and the minimum bending radius, and the two predictive routes being respectively closest to the fixing points. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Art Unit: 2863


Claims 7 and 8 are allowed due to their dependency on claim 6.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung S Lau whose telephone number is 571-272-2274. The examiner can normally be reached on M-F 9-5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone numbers for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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PRIMARY EXAMINER